## Sheet 1 of 10 Express Mail Label No.: EV088815222US Title: Inductive Monitoring System Constructed from Nominal System Data and its Use in Real-Time System Monitoring

Inventor: David L. Iverson NASA Case No.: ARC-15058-1 NASA POC: Vickle Kent (850) 604-0887

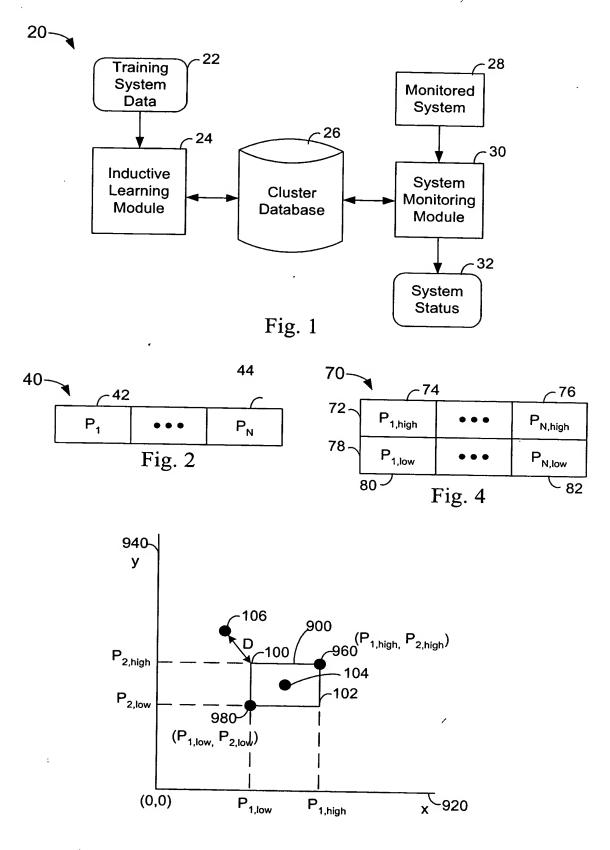


Fig. 6

Sheet 2 of 10
Express Mail Label No.: EV088815222US
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Inventor: David L. Iverson
NASA Case No.: ARC-15058-1
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64	emperature 2	37.6
62	Pressure Temperature Temperature C 1	49.8
09	Pressure C	1104.1
58	Valve 2 Position	96.2%
95	Pressure B	1218.4
54	Valve 1 Position	86.4%
52	Pressure A	2857.2

Pressure Valve 1         Pressure A Position         Desition B Position         Valve 2         Pressure C A A A A A A B Position         Pressure C A A A A A A A A A A A A A A A A A A
Ssure A 57.6 55.8
Pre 28 28
92 High

Sheet 3 of 10
Express Mail Label No.: EV068615222US
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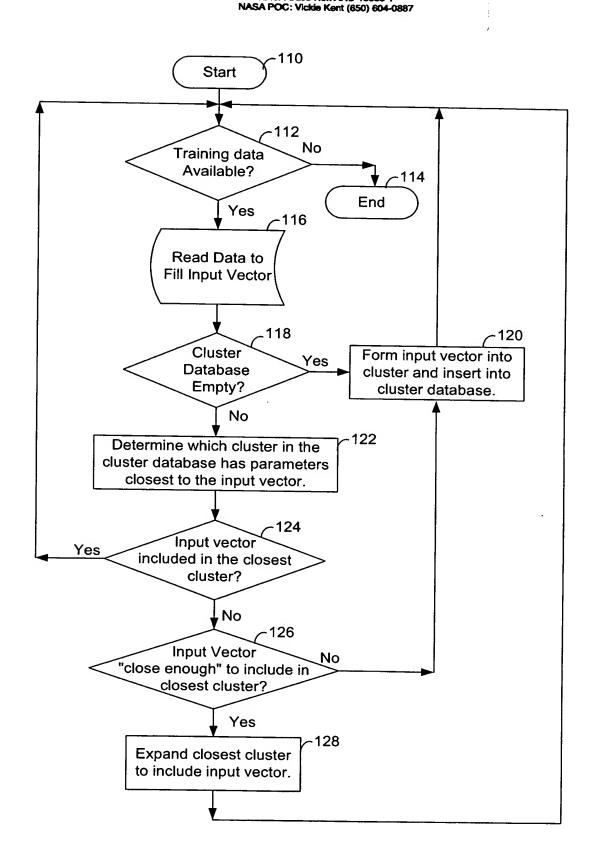


Fig. 7

Sheet 4 of 10
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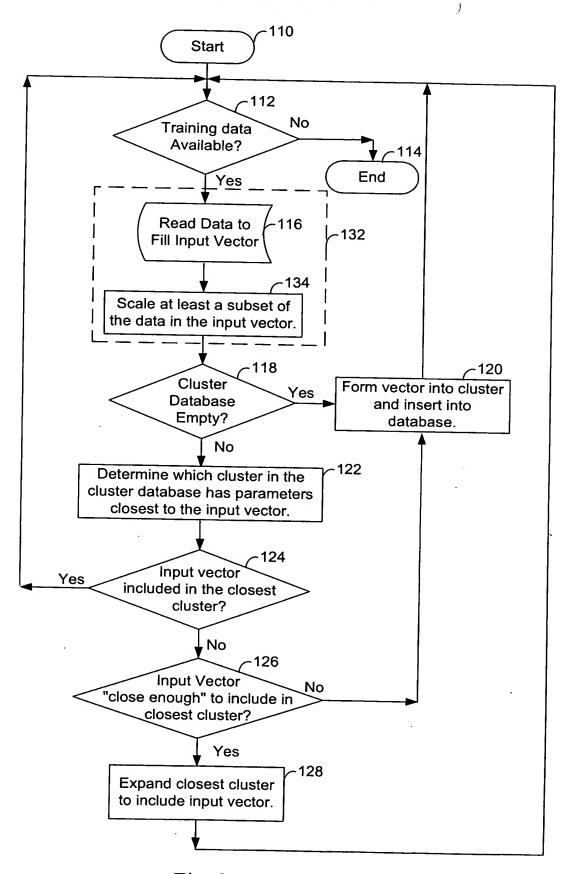
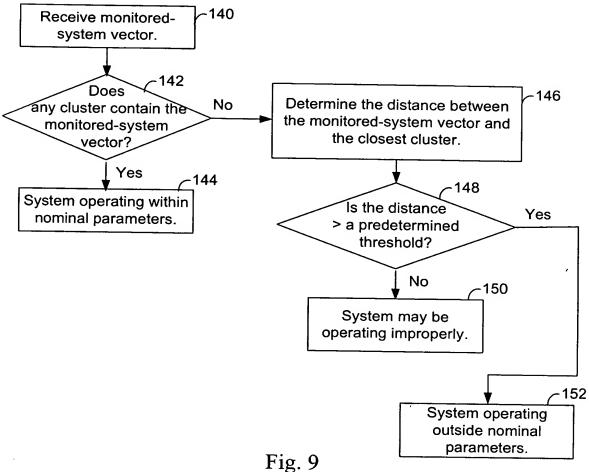


Fig. 8

## Sheet 5 of 10 Express Mail Label No.: EV088815222US Title: Inductive Monitoring System Constructed from Nominal System Data and its Use in Real-Time System Monitoring Inventor: David L. Iverson NASA Case No.: ARC-15058-1 NASA POC: Vickie Kent (650) 604-0887

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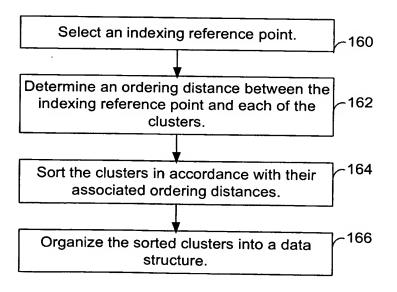


Fig. 10

## Sheet 6 of 10 Express Mail Label No.: EV088615222US Title: Inductive Monitoring System Constructed from Nominal System Data and its Use in Real-Time System Monitoring Inventor: David L. Iverson NASA Case No.: ARC-15058-1 NASA POC: Vicide Kent (650) 604-0887

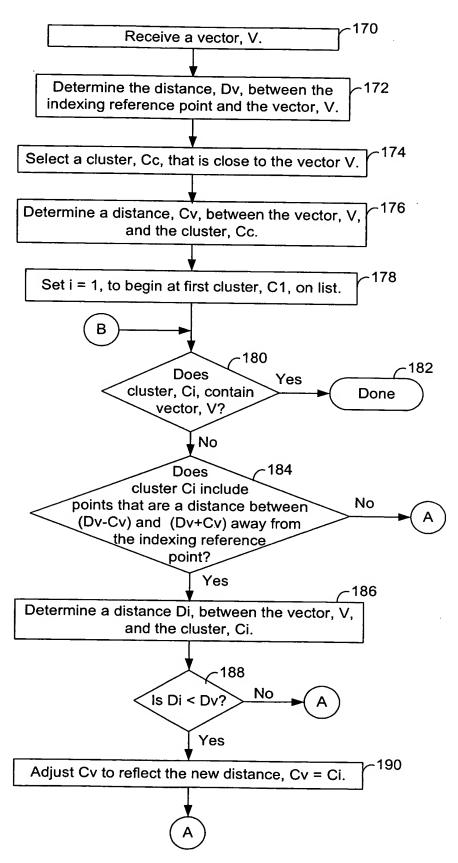


Fig. 11A

Sheet 7 of 10
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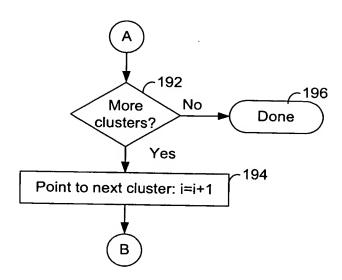


Fig. 11B

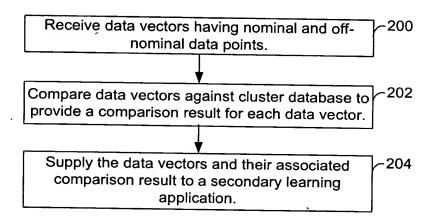


Fig. 12

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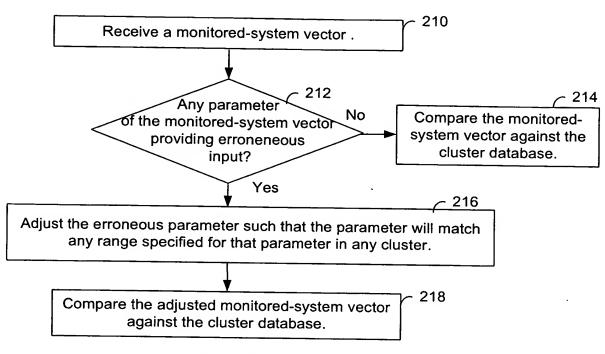


Fig. 13

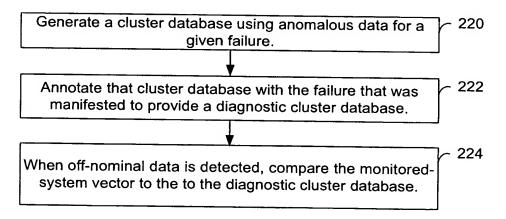


Fig. 14

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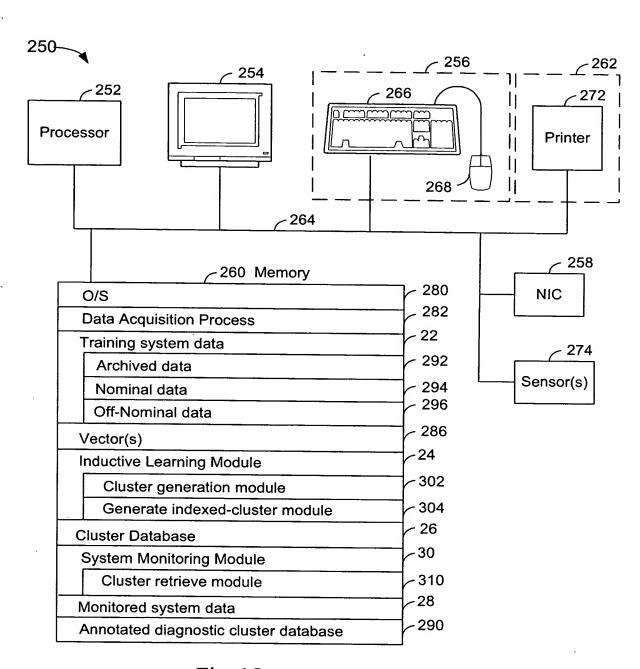


Fig. 15

Sheet 10 of 10
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NASA POC: Victie Kent (650) 604-0887

SHUTOFF CHECK VALVE

GOX TANK
POV-4 CONTROL ORIFICE COMBUSTION CHAMBER

LOX TANK
SHUTOFF VALVE

VAPOREZER

Fig. 16

LOX PUMP

POV-4	PCV-6	PIT3	PT6	PIT3- PT6	PIT3	PT6
position	position	pressure	pressure	difference	change	change

Fig. 17